

Amendments to the Claims:

A clean version of the entire set of pending claims, including amendments to the claims, is submitted herewith per 37 CFR 1.121(c)(3). This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) ~~Positioning~~ A positioning method for a radio system, the method comprising:

receiving signals at a unit of the system;

applying at least one test on the received signals to select a processing operation on the signals, the operation being one of the following: a correlation processing operation ~~(Step 9, 12), and~~ a leading edge processing operation (Step 10); and

then effecting the operation selected.

2. (Currently Amended) The method of Claim 1 wherein the test applied comprises determining whether the signal level of the received signal is above a threshold value ~~(Step 4)~~.

3. (Currently Amended) The method of Claim 2 wherein, ~~if when~~ if when the level of the received signal is below the threshold value, the correlation processing operation is selected ~~(Step 12)~~.

4. (Currently Amended) The method of Claim 2 comprising, ~~if when~~ if when the level of ~~the~~ received signal is above the threshold value, testing ~~if whether~~ if whether the leading edge gradient is above a gradient threshold value ~~(Step 6)~~.

5. (Currently Amended) The method of Claim 3 wherein, ~~if~~when the leading edge gradient is below the gradient threshold value, the leading edge processing operation is selected ~~(Step 10)~~.

6. (Currently Amended) The method of Claim 4 wherein, ~~if~~when the leading edge gradient is above the gradient threshold value, the correlation processing operation is selected ~~(Step 9)~~.

7. (Previously Presented) The method of claim 1, comprising repeating the test application and operation steps at predetermined intervals.

8. (Previously Presented) The method of claim 1 comprising coherently superposing received pulses before the test application step.

9. (Previously Presented) The method of claim 1 comprising convolution of a pulse with a bump function.

10. (Currently Amended) The method of claim 1, ~~further comprising, when if~~ the signal level is below the signal level threshold, ~~extending the a receiving time period for the signal before the next/successive test application(s) and applying the at least one test again.~~

11. (Currently Amended) The method of claim 1 comprising, before testing whether the leading edge gradient is above a threshold value, reducing the next transmit period ~~(Step 13)~~.

12. (Previously Presented) The method according to claim 1 comprising reducing the time period for the leading edge test for operation in a power-saving mode.

13. (Previously Presented) The method according to claim 1 comprising effecting the leading edge processing operation after selection with no intermediate testing or processing.

14. (Previously Presented) The method according to claim 1 comprising measuring the gradient using the formula:-

$$i = \frac{Cdv}{Dt}$$

Dt

Where V = voltage of the signal waveform,

C = capacitance,

i = current

15. (Previously Presented) The method according to claim 1 wherein the leading edge processing operation comprises differentiating the received signal voltage or peak and locating the zero-crossing (point of inflexion).

16. (Previously Presented) A computer program product directly loadable into the internal memory of a digital computer, comprising software code portions for performing the method of claim 1 when said product is run on a computer.

17. (Currently Amended) A computer program embodied on a computer-readable medium and directly loadable into the internal memory of a digital computer, comprising software code portions for performing the method of claim 1 when said program is run on a computer.

18-19. (Canceled)

20. (Currently Amended) ~~Positioning~~ A positioning apparatus for a radio system, the apparatus comprising:

means to receive signals at a unit of the system;

means (20, 21, 22) to apply at least one test on the received signals to select a processing operation on the signals ~~which is one of from among~~ the following operations: a correlation processing operation, and a leading edge processing operation; and

means to effect the operation selected.

21. (Currently Amended) ~~Apparatus. The apparatus~~ of Claim 20 comprising means (26) to determine whether the signal level of the received signal is above a threshold value.

22. (Currently Amended) ~~Apparatus. The apparatus~~ of Claim 21 comprising means (26) to select the correlation processing operation ~~if when~~ the level of the received signal is below the threshold value.

23. (Currently Amended) ~~Apparatus. The apparatus~~ of Claim 22 comprising means (26) to test whether the leading edge gradient is above a gradient threshold value, ~~if when~~ the level of the received signal is above the threshold value.

24. (Currently Amended) ~~Apparatus. The apparatus~~ of Claim 22 comprising means (27) to select the leading edge processing operation, ~~if when~~ the leading edge gradient is below the gradient threshold value.

25. (Currently Amended) ~~Apparatus. The apparatus~~ of Claim 23 comprising means (27) to select the correlation processing operation, ~~if when~~ the leading edge gradient is above the gradient threshold value.

26. (Currently Amended) ~~Apparatus. The apparatus~~ of claim 20, comprising means to repeat the test application and operation steps at predetermined intervals.